AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 16 as follows.

1	1.	(Currently Amended) A method of handlingfor lock contention management, the
2		method comprising the steps of:
3		a first requester transmitting to a lock management system a first request for a
4		particular lock on a resource;
5		wherein said lock management system manages locks on resources that may be are
6		granted to a plurality of processes that eanto access said resource;
7		determining said first request cannot be honored because of a blocking condition;
8		in response to determining said first request cannot be honored:
9		creating first data that indicates the blocking condition; and
10		after creating said first data:
11		storing in a store, as a new item of data in the store, said first data, and
12		receiving a messagetransmitting from said lock management system a
13		message that indicates that said first request to lock a resource
14		is denied;
15		wherein a blocking condition caused the denial of
16		said first request; requester receiving said message from said lock management
17		system;
18		wherein said message includes said first data; and
19		based on said first data, said first requester transmitting a second request for
20		notification that indicates when said blocking condition should no longer
21		cause denial of a request for a lock on said resource.

1 2. (Original) The method of claim 1, wherein no process of said plurality of processes 2 holds a lock issued by said lock management system for said resource. 1 3. (Original) The method of claim 1, wherein the steps further include: 2 said first requester receiving said notification; and 3 in response to receiving said notification, said first requester transmitting another 4 request to said lock management system for said particular lock on said resource. 1 4. (Original) The method of claim 3, wherein the step of said first requester transmitting 2 another request includes transmitting second data that indicates that said blocking 3 condition should no longer cause denial of a request for said lock of said resource. 1 5. (Original) The method of claim 4, wherein the steps further include said lock 2 management system processing said other request without denial based on said 3 second data. 1 6. (Original) The method of claim 1, wherein: 2 a second process of said plurality of processes is performing an operation that causes 3 said blocking condition; 4 said first data identifies another resource locked by said second process for which 5 said first requester may acquire a lock when said blocking condition should no 6 longer cause denial of a request for said lock of said resource; and 7 wherein the step of transmitting said second request includes transmitting a request 8 for said lock on said other resource. 1 7. (Original) The method of claim 1, wherein: 2 said first requester is a process of said plurality of processes; 3 wherein said resource is a data block in a b-tree index; and

4		wherein a second process of said plurality of processes is performing a block split
5		operation on said data block.
1	8.	(Withdrawn) A method of managing locks by a distributed lock management system,
2		the method comprising the steps of:
3		a first lock manager on a first node receiving a first request for a first lock on a
4		resource from a first requester;
5		wherein said distributed lock management system includes said first lock manager;
6		determining that said first request may not be granted because of a blocking
7		condition;
8		said first lock manager storing in a data structure first data that may be used by said
9		first requester to obtain notification that said blocking condition should no
10		longer cause denial of a request for a lock on said resource; and
11		said first lock manager transmitting to said first requester a first response that:
12		indicates that said first request is denied, and
13		includes a copy of said first data.
1	9.	(Withdrawn) The method of claim 8, wherein the steps include:
2		receiving a message that indicates that said blocking condition should no longer cause
3		denial of a request for a lock on said resource; and
4		modifying said data structure to indicate that said blocking condition should no longer
5		cause denial of a request for a lock on said resource.
1	10.	(Withdrawn) The method of claim 9, wherein the step of receiving said message
2		includes receiving said message from said first requester.
1	11.	(Withdrawn) The method of claim 8, wherein:

2		the steps further include said first lock manager transmitting to another lock manager
3		of said distributed lock management system a message requesting said first
4		lock on said resource; and
5		wherein the step of determining is based on a second response received from said
6		other lock manager indicating that said first request cannot be granted;
7		wherein said second response includes a copy of said first data.
1	12.	(Withdrawn) The method of claim 8, wherein the steps further include:
2		receiving a second request for another lock on said resource;
3		determining, based on said first data, that said second request may not be granted;
4		said first lock manager transmitting to said second requester another response that:
5		indicates that said second request is not granted, and
6		includes a copy of said first data.
1	13.	(Withdrawn) The method of claim 12, wherein:
2		said first lock manager is a master of said resource; and
3		wherein the step of receiving said second request includes receiving said second
4		request from another lock manager.
1	14.	(Withdrawn) The method of claim 12, wherein:
2	17.	said first lock manager and a process are on a node, wherein said process is different
3		than said first requester; and
1		the step of receiving said second request includes receiving said second request from
5		said process.
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l	15.	(Withdrawn) The method of claim 8, wherein:
2		said distributed lock management system includes a master for said resource; and

3		wherein no lock is currently granted for said resource by said master.
1	16.	(Currently Amended) A computer-readable medium carrying one or more sequences
2		of instructions for handling-lock contention management, wherein execution of the one
3		or more sequences of instructions by one or more processors causes the one or more
4		processors to perform the steps of:
5		a first requester transmitting to a lock management system a first request for a
6		particular lock on a resource;
7		wherein said lock management system manages locks on resources that may be are
8		granted to a plurality of processes that canto access said resource;
9		determining said first request cannot be honored because of a blocking condition;
10		in response to determining said first request cannot be honored:
11		creating first data that indicates the blocking condition; and
12		after creating said first data:
13		storing in a store, as a new item of data in the store, said first data, and
14		receiving a messagetransmitting from said lock management system a
15		message that indicates that said first request to lock a resource
16		is denied;
17		wherein a blocking condition caused the denial of
18		said first request; requester receiving said message from said lock management
19		system;
20		wherein said message includes said first data; and
21		based on said first data, said first requester transmitting a second request for
22		notification that indicates when said blocking condition should no longer
23		cause denial of a request for a lock on said resource.

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1	17.	(Original) The computer-readable medium of claim 16, wherein no process of said
2		plurality of processes holds a lock issued by said lock management system for said
3		resource.
1	18.	(Original) The computer-readable medium of claim 16, wherein the steps further
2		include:
3		said first requester receiving said notification; and
4		in response to receiving said notification, said first requester transmitting another
5		request to said lock management system for said particular lock on said resource.
1	19.	(Original) The computer-readable medium of claim 18, wherein the step of said first
2		requester transmitting another request includes transmitting second data that indicates
3		that said blocking condition should no longer cause denial of a request for said lock
4		of said resource.
1	20.	(Original) The computer-readable medium of claim 19, wherein the steps further
2		include said lock management system processing said other request without denial
3		based on said second data.
1	21.	(Original) The computer-readable medium of claim 16, wherein:
2		a second process of said plurality of processes is performing an operation that causes
3		said blocking condition;

said first data identifies another resource locked by said second process for which

longer cause denial of a request for said lock of said resource; and

said first requester may acquire a lock when said blocking condition should no

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7		wherein the step of transmitting said second request includes transmitting a request
8		for said lock on said other resource.
1	22.	(Original) The computer-readable medium of claim 16, wherein:
2		said first requester is a process of said plurality of processes;
3		wherein said resource is a data block in a b-tree index; and
4		wherein a second process of said plurality of processes is performing a block split
5		operation on said data block.
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1	23.	(Withdrawn) A computer-readable medium carrying one or more sequences of
2		instructions for managing locks by a distributed lock management system, wherein
3		execution of the one or more sequences of instructions by one or more processors
4		causes the one or more processors to perform the steps of:
5		a first lock manager on a first node receiving a first request for a first lock on a
6		resource from a first requester;
7		wherein said distributed lock management system includes said first lock manager;
8		determining that said first request may not be granted because of a blocking
9		condition;
10		said first lock manager storing in a data structure first data that may be used by said
-11		first requester to obtain notification that said blocking condition should no
12		longer cause denial of a request for a lock on said resource; and
13		said first lock manager transmitting to said first requester a first response that:
14		indicates that said first request is denied, and
15		includes a copy of said first data.
1	24.	(Withdrawn) The computer-readable medium of claim 23, wherein the steps include

2		receiving a message that indicates that said blocking condition should no longer cause
3		denial of a request for a lock on said resource; and
4		modifying said data structure to indicate that said blocking condition should no longer
5		cause denial of a request for a lock on said resource.
1	25.	(Withdrawn) The computer-readable medium of claim 24, wherein the step of
2		receiving said message includes receiving said message from said first requester.
1	26.	(Withdrawn) The computer-readable medium of claim 23, wherein:
2		the steps further include said first lock manager transmitting to another lock manager
3		of said distributed lock management system a message requesting said first
4		lock on said resource; and
5		wherein the step of determining is based on a second response received from said
6		other lock manager indicating that said first request cannot be granted;
7		wherein said second response includes a copy of said first data.
1	27.	(Withdrawn) The computer-readable medium of claim 23, wherein the steps further
2		include:
3		receiving a second request for another lock on said resource;
4		determining, based on said first data, that said second request may not be granted;
5		said first lock manager transmitting to said second requester another response that:
6		indicates that said second request is not granted, and
7		includes a copy of said first data.
1	28.	(Withdrawn) The computer-readable medium of claim 27, wherein:
2		said first lock manager is a master of said resource; and

3		wherein the step of receiving said second request includes receiving said second
4		request from another lock manager.
1	29.	(Withdrawn) The computer-readable medium of claim 27, wherein:
2		said first lock manager and a process are on a node, wherein said process is different
3		than said first requester; and
4		the step of receiving said second request includes receiving said second request from
5		said process.
1	30.	(Withdrawn) The computer-readable medium of claim 23, wherein:
2		said distributed lock management system includes a master for said resource; and
3		wherein no lock is currently granted for said resource by said master.

The Examiner is respectfully requested to contact the undersigned by telephone if it is believed that such contact would further the examination of the present application.

Respectfully submitted,

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LLP.

Dated: December 6, 2004

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

on 12/16/14

Jermifer Newell